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EXAMINER

NGUYEN, LAM S

ART UNIT

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/776,163             | BEN-ZUR, OFER       |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | LAM S. NGUYEN          | 2853                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 28 May 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/27/08</u> .   | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 13-19, 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwatsuki et al. (US 2003/0197772 A1) in view of Loopstra et al. (US 6262796), Codos (US 6755518), Rasmussen et al. (US 6536894), Rezanka (US 5757407), and Yamada et al. (US 6042228).

#### **Regarding to claim 13:**

Iwatsuki et al. discloses a digital printing machine for printing on textile media (*paragraphs [0003], [0005]*) comprising:

a rigid frame (*FIG. 1, element 1*);

a linear motion X axis stage (*FIG. 1, elements 11, 11a-b*) mounted on said frame;

a printing table assembly (*FIG. 1, elements 12, 13, 15*) configured to move back and forth on said linear X axis stage (*FIG. 1: The stage 11 linearly moves from FRONT SIDE to REAR SIDE and versa*) and for carrying said textile media (*FIG. 4A-4D*);

a linear motion Y axis stage (*FIG. 1, elements 2-4*) mounted on said frame perpendicular to said linear X axis stage, above said printing table assembly (*FIG. 1: The carriage 4 moves along a direction perpendicular to the moving direction of printing table assembly 11*);

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an array of inkjet nozzles for applying ink on said textile media loaded on said printing table assembly, said array of inkjet nozzles (*FIG. 1, element 5 and paragraph [0066]: The printing head 5 has a plurality of nozzles*) being mounted on said linear Y axis stage for linear motion perpendicular to said X axis stage (*FIG. 1: The carriage 4 moves the printhead 4 across the printing table assembly*).

- Iwatsuki et al., however, does not teach a second linear motion X axis stage mounted on said frame parallel to said first axis stage alongside said first X axis stage for X axis motion parallel to X axis motion of said first axis stage, and arranged for operation independently of said first axis stage or a second printing table assembly movable on said linear X axis stage base independently of said first printing table assembly.

Loopstra et al. discloses an object holder including at least two linearly movable support tables/stages, wherein the linearly movable support tables/stages (*FIG. 3, elements 55, 53*) are mounted on the same frame (*FIG. 4*), being parallel, and arranged for independently operation (*FIG. 3-4: The two tables 45, 43 move along the parallel direction Y and each having independent function at a time*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus to include a second table/stage that is parallel and independently operates from the first table/stage as disclosed by Loopstra et al. in order to be able to process simultaneously and independently two objects to increase the throughput of the apparatus (*column 2, lines 19-30*).

- Iwatsuki et al. also does not teach a curing unit located above said printing table

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assembly and arranged to cure ink on media on said printing assembly, wherein said curing unit is an infrared system or a hot air blowing unit (**Regarding to claims 14-15**), and wherein at least part of said printing table assembly is a vacuum table (**Regarding to claim 18**).

Codos discloses an ink jet printing apparatus mounted on a rigid frame (*FIG. 1, element 111*) and including an ink jet printhead assembly (*FIG. 1, element 125*) for forming images on a printing medium (*FIG. 1, element 15*) conveyed by a vacuum conveyor (*FIG. 1, element 105, 121*) and a curing unit located above the printing medium to cure ink deposited on the printing medium, wherein said curing unit is an infrared system or a hot air blowing unit (*FIG. 1, elements 124, 126; column 8, lines 62-64: Heating by forced hot air is preferred, although other heat sources, such as infrared heaters can be used*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus to include a curing unit to cure ink deposited on the printing medium as disclosed by Codos. The motivation for doing so would have been to cure the ink upon its contacting the substrate (printing medium) to prevent ink spreading and wicking that affect printing quality as taught by Codos (*column 2, lines 65-67*).

- In addition, Iwatsuki et al. does not teach an ironing unit located above said printing table assembly and arranged to iron media on said printing assembly before printing thereon.

Rasmussen et al. discloses an ink jet printing apparatus including an ink jet printhead (*FIG. 2B, element 14*) for forming images on a printing medium conveyed by a conveyor (32) and an ironing unit located above said printing medium and arranged to iron said printing media before printing thereon (*FIG. 2B, elements 201', 202; column 3, lines 32-38: Heating and*

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*pressing the print media upstream of printing to flatten print media prior to ink jet printing thereon).*

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus to include an ironing unit located above the printing medium to iron the printing media before printing as disclosed by Rasmussen et al. The motivation for doing so would have been to provide a flat and stable media for printing in order to improve image quality as taught by Rasmussen et al. (*column 4, lines 19-24*).

- Iwatsuki et al., furthermore, is silent wherein said inkjet nozzles include drop-on-demand piezoelectric inkjet nozzles or continuous piezoelectric inkjet nozzles and does not teach wherein during said applying said printing table assembly passes by said array of inkjet nozzles in said back and forth movements said array of inkjet nozzles is substantially static on said linear Y axis.

Rezanka discloses an ink jet printing apparatus comprising an array of ink jet nozzles including either drop-on-demand piezoelectric inkjet nozzles or continuous piezoelectric inkjet nozzles (*column 12, lines 10-13*) for ejecting ink droplets to form images on a printing medium conveyed on a printing table assembly, wherein during applying ink drops from the nozzle array to the printing table assembly passing by said nozzle array in back and forth movements, the nozzle array is substantially static (*column 1, lines 47-53*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to structure the inkjet printhead in Iwatsuki et al.'s printing apparatus to be

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stationary during the printing operation as disclosed by Rezanka. The motivation for doing so would have been to increase printing speeds as taught by Rezanka (*column 4, lines 52-55*).

- Finally, Iwatsuki et al., as modified, does not teach wherein said array of inkjet nozzles is configured to move from applying ink on a first of said printing table assemblies to applying ink on a second of said printing table assemblies.

Yamada et al. discloses an inkjet printing apparatus comprising a carrier (*FIG. 6, element 4*) carrying for inkjet nozzle printheads (*FIG. 7, elements K, C, M, Y*), wherein the carrier moves the inkjet printheads from applying ink on a first printing medium (*FIG. 6, element 103*) to applying ink on a second printing medium (*FIG. 6, element 102*), wherein the first and second printing mediums are conveyed by different assemblies arranged in parallel and operating independently.

Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to structure the inkjet printhead in Iwatsuki et al.'s printing apparatus, as modified, to be able to apply ink on different printing mediums supported by different assemblies as disclosed by Yamada et al. The motivation for doing so would have been to be able to print on different objects by one inkjet printhead assembly as taught by Yamada et al. (*FIGs. 6-7*).

- **Iwatsuki et al. also teaches the following claimed invention:**

**Regarding to claim 16:** wherein said printing table assembly comprises a media-holding plate (*FIG. 5A-D, element 15*) and an openable cover (*FIG. 1, element 14*) pivotally coupled to said media-holding plate for holding said media firmly against said plate (*FIG. 5A-D*).

**Regarding to claim 17:** wherein said media-holding plate (*FIG. 5A-D, element 15*)

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includes a raised portion (*FIG. 5A-D, element 12*), and said cover includes a window (*FIG. 5A-D: The window is defined by the inner frame 19 of the frame structure (cover) 14*) of the same shape and slightly larger than said raised portion (*FIG. 5A-D, elements 12 and 19: The width of the inner frame (window) 19 is slightly wider than that of the raise portion 12*).

**Regarding to claim 19:** wherein said printing table assembly is a flattened plate (*FIGs. 5A-D, elements 12-13 and 15*).

2. Claims 1-3, 7-8, 22, 27-28, 30-31, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwatsuki et al. (US 2003/0197772 A1) in view of Loopstra et al. (US 6262796), Rezanka (US 5757407), and Yamada et al. (US 6042228).

Iwatsuki et al. discloses a printing machine for printing on textile media (*paragraphs [0003], [0005]*) comprising:

a rigid frame (*FIG. 1, element 1*);

a first linear motion X axis stage (*FIG. 1, elements 11, 11a-b*) mounted on said frame for X axis motion (*FIG. 13: The X motion is along the direction of arrows L1-L2*);

a first printing table assembly (*FIG. 1, elements 12, 13, 15*) configured for moving back and forth on said linear X axis stage (*FIGs. 1 and 13: The stage 11 linearly moves from FRONT SIDE to REAR SIDE and versa*) for carrying said textile media (*FIG. 4A-4D*);

a linear motion Y axis stage (*FIG. 1, elements 2-4*) mounted on said frame perpendicular to said linear X axis stage, above said printing table assembly (*FIG. 1: The carriage 4 moves along a direction perpendicular to the moving direction of printing table assembly 11*);



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an array of inkjet nozzles for applying ink on said textile media loaded on said printing table assembly, said array of inkjet nozzles (*FIG. 1, element 5 and paragraph [0066]: The printing head 5 has a plurality of nozzles*) being mounted on said linear Y axis stage for linear motion perpendicular to said X axis stage (*FIG. 1: The carriage 4 moves the printhead 4 across the printing table assembly*).

- Iwatsuki et al., however, does not teach a second linear motion X axis stage mounted on said frame parallel to said first axis stage alongside said first X axis stage for X axis motion parallel to X axis motion of said first axis stage, and arranged for operation independently of said first axis stage or a second printing table assembly movable on said linear X axis stage base independently of said first printing table assembly.

Loopstra et al. discloses an object holder including at least two linearly movable support tables/stages, wherein the linearly movable support tables/stages (*FIG. 3, elements 55, 53*) are mounted on the same frame (*FIG. 4*), being parallel, and arranged for independently operation (*FIG. 3-4: The two tables 45, 43 move along the parallel direction Y and each having independent function at a time*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus to include a second table/stage that is parallel and independently operates from the first table/stage as disclosed by Loopstra et al. in order to be able to process simultaneously and independently two objects to increase the throughput of the apparatus (*column 2, lines 19-30*).

- Iwatsuki et al., in addition, is silent wherein said inkjet nozzles include drop-on-demand

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piezoelectric inkjet nozzles or continuous piezoelectric inkjet nozzles and does not teach wherein during said applying said printing table assembly passes by said array of inkjet nozzles in said back and forth movements said array of inkjet nozzles is substantially static on said linear Y axis.

Rezanka discloses an ink jet printing apparatus comprising an array of ink jet nozzles including either drop-on-demand piezoelectric inkjet nozzles or continuous piezoelectric inkjet nozzles (*column 12, lines 10-13*) for ejecting ink droplets to form images on a printing medium conveyed on a printing table, wherein during applying ink drops from the nozzle array on a printing table assembly passing by said nozzle array in back and forth movements, the nozzle array is substantially static (*column 1, lines 47-53*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to structure the inkjet printhead in Iwatsuki et al.'s printing apparatus to be stationary during the printing operation as disclosed by Rezanka. The motivation for doing so would have been to increase printing speeds as taught by Rezanka (*column 4, lines 52-55*).

- Finally, Iwatsuki et al., as modified, does not teach wherein said array of inkjet nozzles is configured to move from applying ink on a first of said printing table assemblies to applying ink on a second of said printing table assemblies.

Yamada et al. discloses an inkjet printing apparatus comprising a carrier (*FIG. 6, element 4*) carrying for inkjet nozzle printheads (*FIG. 7, elements K, C, M, Y*), wherein the carrier moves the inkjet printheads from applying ink on a first printing medium (*FIG. 6, element 103*) to applying ink on a second printing medium (*FIG. 6, element 102*), wherein the first and

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second printing mediums are conveyed by different assemblies arranged in parallel and operating independently.

Therefore, it would have been obvious for one having ordinary skill in the art at the time the invention was made to structure the inkjet printhead in Iwatsuki et al.'s printing apparatus, as modified, to be able to apply ink on different printing mediums supported by different assemblies as disclosed by Yamada et al. The motivation for doing so would have been to be able to print on different objects by one inkjet printhead assembly as taught by Yamada et al. (FIGs. 6-7).

- **Iwatsuki et al. also teaches the following claimed invention:**

**Regarding to claims 2, 27:** wherein said printing table assembly comprises a media-holding plate (FIG. 5A-D, element 15) and an openable cover (FIG. 1, element 14) pivotally coupled to said media-holding plate for holding said media firmly against said plate (FIG. 5A-D).

**Regarding to claims 3, 28:** wherein said media-holding plate (FIG. 5A-D, element 15) includes a raised portion (FIG. 5A-D, element 12), and said cover includes a window (FIG. 5A-D: The window is defined by the inner frame 19 of the frame structure (cover) 14) of the same shape and slightly larger than said raised portion (FIG. 5A-D, elements 12 and 19: The width of the inner frame (window) 19 is slightly wider than that of the raise portion 12).

**Regarding to claim 32:** wherein said back and forth movement comprises a circular movement (paragraph [0008]: The movement of a garment/fabric can be conveyed by belts that are moved circularly).

3. Claims 6, 9-11, 24-26, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwatsuki et al. (US 2003/0197772 A1) in view of Loopstra et al. (US 6262796), Rezanka

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(US 5757407), and Yamada et al. (US 6042228), as applied to claims 1 and 22, and further in view of Codos (US 6755518).

Iwatsuki et al., as modified, discloses the claimed invention as discussed above except a curing unit located above each said printing table assembly and arranged to cure ink on media on said printing assembly (**Regarding to claims 9, 24**), wherein said curing unit is an infrared system or a hot air blowing unit (**Regarding to claims 10-11, 25-26**), and wherein at least part of said printing table assembly is a vacuum table (**Regarding to claims 6, 29**).

Codos discloses an ink jet printing apparatus including an ink jet printhead (*FIG. 1, element 125*) for forming images on a printing medium (*FIG. 1, elements 15*) conveyed by a vacuum conveyor (*FIG. 1, element 105, 121*) and a curing unit located above the printing medium to cure ink deposited on the printing medium, wherein said curing unit is an infrared system or a hot air blowing unit (*FIG. 1, elements 124, 126; column 8, lines 62-64: Heating by forced hot air is preferred, although other heat sources, such as infrared heaters can be used*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus (as modified) to include a curing unit to cure ink deposited on the printing medium as disclosed by Codos. The motivation for doing so would have been to cure the ink upon its contacting the substrate (printing medium) to prevent ink spreading and wicking that affect printing quality as taught by Codos (*column 2, lines 65-67*).

4. Claims 12 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwatsuki et al. (US 2003/0197772 A1) in view of Loopstra et al. (US 6262796), Rezanka (US

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5757407), and Yamada et al. (US 6042228), as applied to claims 1 and 22, and further in view of Rasmussen et al. (US 6536894).

Iwatsuki et al., as modified, discloses the claimed invention as discussed above except an ironing unit located above each said printing table assembly and arranged to iron media on said printing table assemblies.

Rasmussen et al. discloses an ink jet printing apparatus including an ink jet printhead (*FIG. 2B, element 14*) for forming images on a printing medium conveyed by a conveyor (32) and an ironing unit located above said printing medium and arranged to iron said printing media before printing thereon (*FIG. 2B, elements 201', 202; column 3, lines 32-38: Heating and pressing the print media upstream of printing to flatten print media prior to ink jet printing thereon*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus (as modified) to include an ironing unit located above the printing medium to iron the printing media before printing as disclosed by Rasmussen et al. The motivation for doing so would have been to provide a flat and stable media for printing in order to improve image quality as taught by Rasmussen et al. (*column 4, lines 19-24*).

5. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwatsuki et al. (US 2003/0197772 A1) in view of Loopstra et al. (US 6262796), Rezanka (US 5757407), and Yamada et al. (US 6042228), as applied to claim 1, and further in view of Nakamura et al. (US 2003/0142167 A1).

Iwatsuki et al., as modified, discloses the claimed invention as discussed above except

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wherein said linear motion X axis stage is a linear motor driven stage and said linear motion Y axis stage is a linear motor driven stage.

Nakamura et al. discloses an ink jet printing apparatus comprising a linear motion X axis stage (*FIG. 9, elements 19, 52-53*) to convey an ink jet printhead (*FIG. 9, element 22*) to form images on a printing medium (*FIG. 9, element 12*) positioned on a printing table (*FIG. 9, element 49*) conveyed by a linear motion Y axis stage (*FIG. 9, elements 21, 54, 56*), wherein both X and Y linear motion stages are linear motor driven stages (*paragraphs [0103]-[0104]: An X slider/stage 53 contains a linear motor. A Y slider/stage 56 contains a linear motor. The X and Y sliders move when the associated built-in linear motor is operated*).

Therefore, it would have been obvious for one having ordinary skill in the art at the time invention was made to modify Iwatsuki et al.'s printing apparatus (as modified) to move/drive the stages by linear motors as disclosed by Nakamura et al. The motivation for doing so would have been because it is possible to control a position of the ink jet head supported by the X stage and a position of the printing table supported by the Y stage very precisely as taught by Nakamura (*paragraph [0105]*).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1, 13, and 22 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S. NGUYEN whose telephone number is (571)272-2151. The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

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like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LAM S NGUYEN/

Primary Examiner, Art Unit 2853